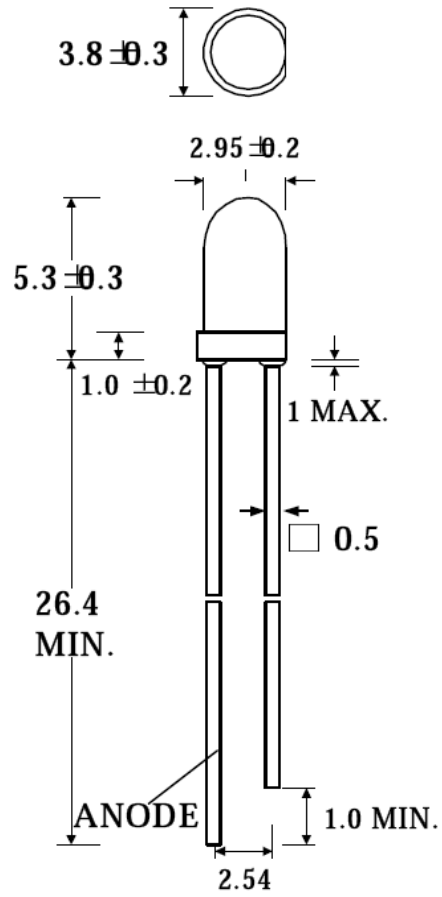


SPECIFICATIONS **CL30G3D**

OUTLINES DIMENSIONS

Description
 *Round Type
 *T1 (3mm) Diameter
 *Lens Color: Green Diffused
 *With Flange

Features
 *Emitting Color: Green
 *High Luminous Intensity
 *Technology: InGaAlP
 *Peak Wavelength 563nm



- Notes:
1. All Dimensions are in millimeters (inches).
 2. Tolerance is $\pm 0.25\text{mm}$ (0.01") unless otherwise noted.
 3. Specifications are subject to change without notice.

Part Number	Chip Material	Color of Emission	Lens Type	Viewing Angle
CL30G3D	InGaAlP	Green	Green Diffused	60°



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ABSOLUTE MAXIMUM RATINGS
(TA=25°C)

Parameter	Symbol	Max Rating	Unit
Power Dissipation	P _D	120	mW
Pulse Current Forward Current	I _{FP}	100	mA
Continuous Forward Current	I _F	50	mA
Reverse Voltage	V _R	5	V
Operating Temperature Range	T _{OPR}	-40~+85	°C
Storage Temperature Range	T _{STG}	-40~+85	°C
I _{FP} = Pulse Width ≤ 10 ms, Duty Ratio ≤ 1/10. Soldering Condition: 260 °C/ 5sec			

OPTICAL-ELECTRICAL CHARACTERISTICS
(TA=25°C)

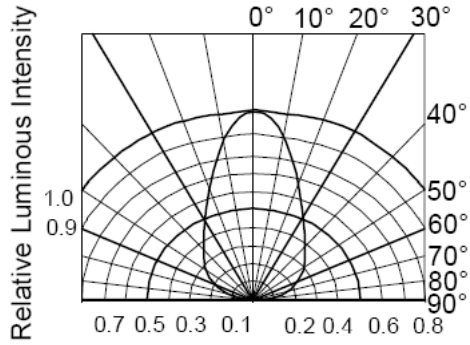
Parameter	Symbol	Test Condition	Value			Unit
			Min	Typ	Max	
Luminous Intensity	I _V	I _F = 20mA	330	500	-	mcd
Forward Voltage	V _F	I _F = 20mA	-	2.0	2.4	V
Reverse Leakage Current	I _R	V _R = 5V	-	-	10	μA
Viewing Angle	2θ _{1/2}	I _F = 20mA	-	60	-	deg
Peak Wavelength	λ _P	I _F = 20mA	-	563		nm
Dominant Wavelength	λ _D	I _F = 20mA	-	560		nm

*Tolerance of viewing angle: -10 / +5 deg.

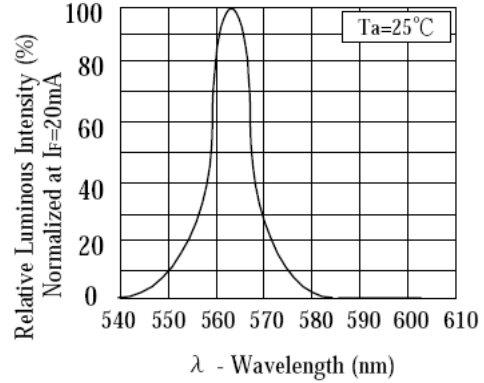


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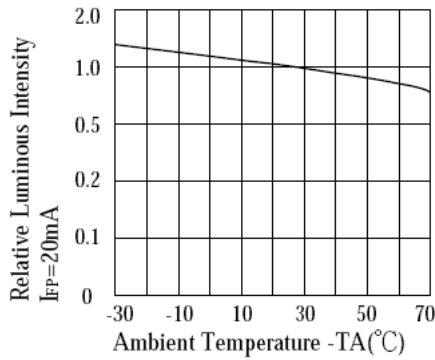
OPTICAL CHARACTERISTIC CURVES



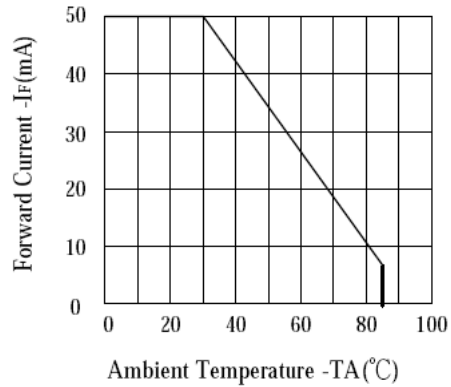
RADIATION DIAGRAM



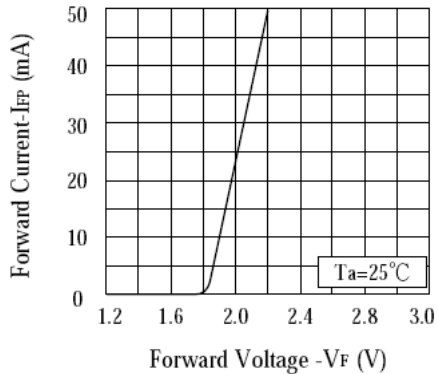
RELATIVE LUMINOUS INTENSITY Vs. WAVELENGTH



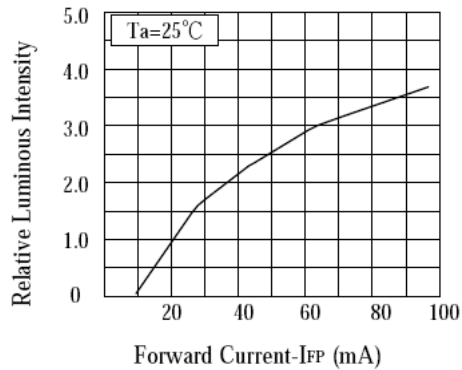
LUMINOUS INTENSITY Vs. AMBIENT TEMPERATURE



MAX FORWARD CURRENT Vs. AMBIENT TEMPERATURE



FORWARD CURRENT Vs. FORWARD VOLTAGE



LUMINOUS INTENSITY Vs. FORWARD CURRENT



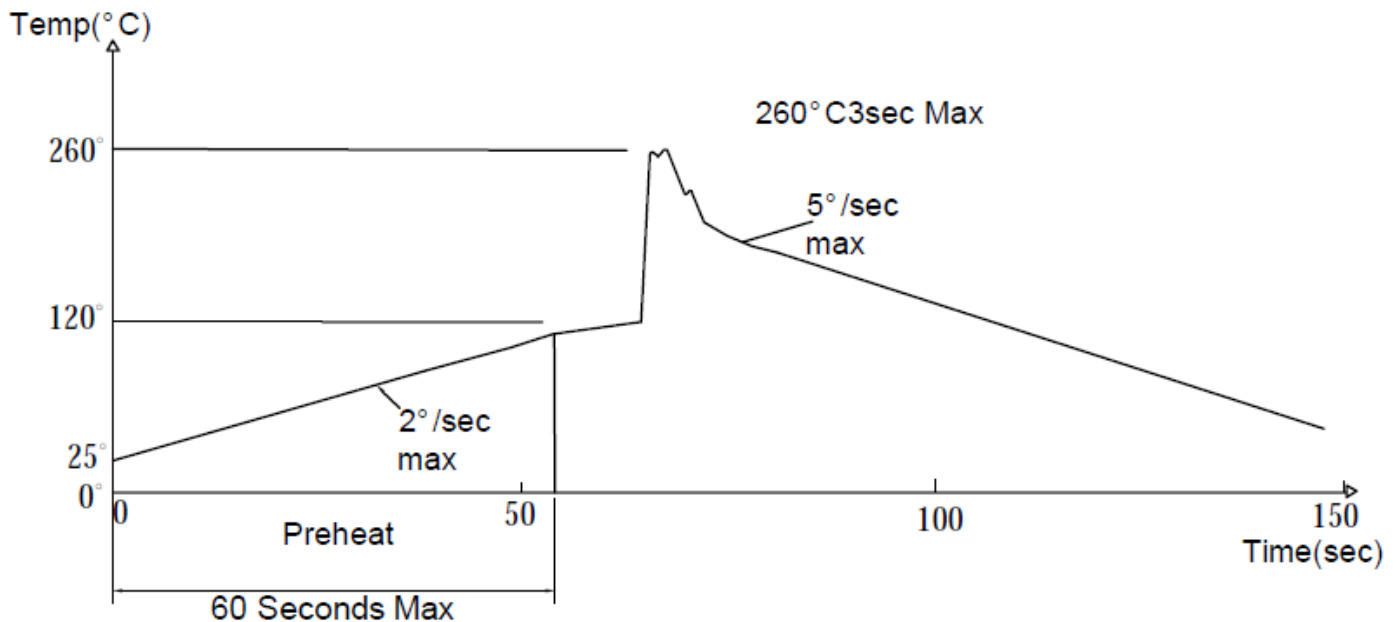
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SOLDERING CONDITIONS – LAMP TYPE LED

SOLDERING PROFILE

1. Iron:
 - Soldering Iron: 30W max
 - Temperature 350 °C max
 - Soldering Time: 3 seconds max (one time)
 - Distance: 2mm min (from solder joint to body)

2. Wave Soldering Profile:
 - Dip soldering
 - Preheat: 120 °C max
 - Preheat time: 120 seconds max
 - 2 °C/sec (max)
 - Ramp-down: -5 °C/sec (max)
 - Solder bath: 260 °C max
 - Dipping time: 3 seconds max
 - Distance: 2mm min (from solder joint to body)



Notes:

1. Wave solder should not be made more than one time.
2. Only select one of the soldering conditions as above.



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